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1. ST12B-001: Advanced Materials and Methods for Biospecimen Collection for Infectious Disease

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop advanced materials and technologies for swab or swab-like collection of bio-specimens that can be used by a minimally-trained individual, and shipped/stored under ambient conditions. These technologies would advance methods to collect bio-specimens, such as naso/oropharyngeal swabs, for the diagnosis of some respiratory diseases. Developed swabs should be optimized for bios-p ...

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2. ST12B-002: Forecasting Dynamic Group Behavior in Social Media

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop automated tools that can (1) learn models of the dynamics of inter- as well as intra- group interactions in social media and (2) track the evolution of such dynamics and derive causal factors from online interaction data. DESCRIPTION: Social media have evolved from a platform that provides infrastructure that supports maintaining connections between friends to a platform tha ...

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3. ST12B-003: Automated Approaches to Cellular Engineering and Biomanufacturing

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop an automated, software-controlled platform that enhances cutting edge methodologies for genome-scale cellular engineering to enable rapid engineering and optimization of new biomanufacturing systems. DESCRIPTION: Current approaches to engineering biology rely on an ad hoc, laborious, trial-and-error process, wherein one successful project often does not translate to enabling ...

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4. SB123-001: Adhesive Bond Strength of Bonded Structures in Confined Locations

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop an inspection system to measure the adhesive bond strength for bonded composite structures that are contained near edges or in confined spaces. DESCRIPTION: Bonded composite materials offer considerable opportunity to reduce manufacturing cost, improve structural performance, and improve fuel efficiency of aircraft. However, bonded composite aircraft structures continue to b ...

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5. SB123-002: Indexing large scientific data

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop new indexing schemes for large heterogeneous data that operate within a cloud-computing framework in order to enable rapid search and analytics. DESCRIPTION: Data continue to be generated and digitally archived at increasing rates, resulting in large volumes available for search and analysis. Access to these volumes has generated new insights through data-driven methods in ...

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6. SB123-003: Rapid, Low-Cost, and High-Fidelity DNA Synthesis and Assembly Techniques

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop a platform based on novel DNA synthesis and assembly techniques that can produce sequence-verified, dsDNA constructs of at least 20,000 bp in length (including A/T- and G/C- rich sequences), at a cost of less than $0.05/bp, and with a turn time of less than one week. DESCRIPTION: Current approaches to engineering biology rely on an ad hoc, laborious, trial-and-error process, ...

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7. SB123-004: Realtime interlinked software for distributed Non-latent N-DOF operations

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Create and link a nationally distributed network of very low cost space-simulated N-degree of freedom (DOF) test beds using a common open source set of real-time software. DESCRIPTION: The US has more independent multi-DOF test beds that support various robotic or free-flying demonstration spaces for space systems than anywhere in the world. However, they are each independent and ...

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8. SB122-001: Controlling Antibiotic Resistant or Highly Virulent Pathogens Through Plasmid Curing

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop a novel plasmid curing therapeutic capable of displacing antibiotic resistance and/or virulence causing plasmids from bacteria. Therapeutic interventions are sought that will be efficacious against a range of human pathogens of interest to the DoD. DESCRIPTION: The combined threat of the increasing prevalence of drug-resistant bacteria and a diminishing antibiotic pipeline p ...

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9. SB122-002: High-resolution, Ultra-sensitive Magnetic Imaging Using an Ensemble of Nitrogen-Vacancy (NV) Centers in Diamond

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop compact magnetic field imagers with nT/Hz^1/2 field sensitivity and sub-micron spatial resolution using an optically-addressed ensemble of NV centers in diamond. DESCRIPTION: Highly sensitive magnetic field imaging systems are important tools in both military and civil sectors, finding applications ranging from the detection of landmines and submarines to the high-resolution ...

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10. SB122-003: Minimally Invasive, Self-Collection of Large Volume Biospecimens

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop advanced technologies that can be self-operated by a patient or a minimally trained operator to collect large volumes/weights of a biospecimen for clinical use,

such as diagnostic and remote clinical trials, or for research applications such as biomarker discovery/validation. The majority of diagnostic tests and research assays require blood biospecimens that are traditional ...

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